## DESKET BY GIVETO 18 JAN 2006

PTO-1390 (Rev. 07-2005)
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TRANSMITTAL LETTER TO THE UNITED STATES			2842.43US01
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		U.S. APRICATION NO (II known, see 37 CFR 1.5)	
	TIONAL APPLICATION NO. 004/010232	INTERNATIONAL FILING DATE 16 July 2004	PRIORITY DATE CLAIMED  18 July 2003
TITLE OF INVENTION PHOTONIC CRYSTAL WAVEGUIDE, HOMOGENEOUS MEDIUM WAVEGUIDE, AND OPTICAL DEVICE			
APPLICANT(S) FOR DO/EO/US Shigeo KITTAKA, Kazuaki OYA, Keiji TSUNETOMO			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
1. It is a FIRST submission of items concerning a submission under 35 U.S.C. 371.			
2.	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.		
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.			
4.	The US has been elected (Article 31).		
5. <b>Y</b>	A copy of the International Application as filed (35 U.S.C. 371(c)(2))		
	is attached hereto (required only if not communicated by the International Bureau).		
	b. I has been communicated by the International Bureau.  c. I is not required, as the application was filed in the United States Receiving Office (RO/US).  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).		
	s disclied lie etc.	:Maddag 25 11 0 0 454(d)(4)	
b. Li has been previously submitted under 35 U.S.C. 154(d)(4).  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))			
'	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. are attached hereto (required only if not communicated by the International Bureau).		
	b. have been communicated by the International Bureau.		
		rever, the time limit for making such amendr	ments has NOT expired
	d. La have not been made and will not be made.		
8. 🗖	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).		
9. 🔲	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).		
10.	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	examination Report under PCT
Items 11 to 20 below concern document(s) or information included:			
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.	
12.	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
13.	A preliminary amendment.		
	An Application Data Sheet under 37 CFR 1.76.		
15.	A substitute specification.		
16.	A power of attorney and/or change of address letter.		
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.		
18.	A second copy of the published Interr	national Application under 35 U.S.C. 154(d)	(4).
19.	A second copy of the English language	ge translation of the international application	ı under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IAP15 Rec'd PCT/FTO 1.8. JAN 2006

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a. A check in the amount of \$ 6,150.00 to cover the above fees is enclosed. Please charge my Deposit Account No. in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \_16-0631 \_\_\_\_\_. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the international Application to pending status. SEND ALL CORRESPONDENCE TO: Douglas J. CHRISTENSEN SIGNATURE Patterson, Thuente, Skaar & Christensen, P.A. Erik M. Drange 4800 IDS Center NAME 80 South 8th Street Minneapolis, Minnesota 55402 57,750 **REGISTRATION NUMBER**